

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site: a) Name of facility/site: Facility/site address: Emmanuel College-Academic Science Building 400 The Fenway Boston, MA 02115 Location of facility/site: Facility SIC code(s): Street: latitude: 42.20 longitude: 71.06 400 The Fenway b) Name of facility/site owner: Emmanuel College Town: Boston Email address of owner: Zip: County: State: donovan@emmanuel.edu MA 02115 Suffolk Telephone no. of facility/site owner: (617) 735-9822 Fax no. of facility/site owner: (617) 684-7781 Owner is (check one): 1. Federal 2. State/Tribal 3. Private

✓ 4. other, if so, describe: City of Newton Address of owner (if different from site): Street: Town: State: Zip: County: Suffolk Operator telephone no: (617) 735-9937 c) Legal name of operator: **Emmanuel College** Operator fax no.: (617) 684-7781 Operator email: donovan@emmanuel.edu Operator contact name and title: Sr. Anne Donovan-Treasurer

Address of operat	or (if different fi	om owner):	Street:					
Town:			State:	Zip:	County:			
d) Check "yes" or "no" for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Yes No ✓, if "yes," number: 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes No✓, if "yes," date and tracking #: 3. Is the discharge a "new discharge"as defined by 40 CFR 122.2? Yes ✓ No 4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes ✓ No								
e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes No \(\) If "yes," please list: 1. site identification # assigned by the state of NH or MA: 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number: f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y N_\(\), if Y, number: 2. phase I or II construction storm water general permit? Y N_\(\), if Y, number: 3. individual NPDES permit? Y N_\(\), if Y, number: 4. any other water quality related permit? Y N_\(\), if Y, number:								
2. Discharge infe	ormation. Pleas	se provide information about the di	scharge, (attachii	ng additional sheets as needed)	including:			
Construction de Excavation and structure. The s be provided dur	ewatering to be p conctruction will sheet pile wall wring the construct	It be performed within a continuou ill be restrained using temporary by	cavation for cons sly interlocking s racing consisting embedment into t	struction of high-rise building v steel sheet pile wall installed ju- of either internal and/or extern he marine clay deposit. In add	with two to three levels of below-grade parking. st beyond the perimeter foundation walls of the nal supports. A perimeter ground-water cutoff will ition, a perimeter groundwater "seal" will be			
following information about each	1) Number of discharge points:	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow Average flow Is maximum flow a design value? Y N						
3) Latitude and longitude of each discharge within 100 feet: pt.1:long. 71.12 lat.42.20; pt.2: long. lat. ; pt.3: long. lat. ; pt.3: long. lat. ; pt.4:long. lat. ; pt.5: long. lat. ; pt.6:long. lat. ; pt.7: long. lat. ; pt.8:long. lat. ; etc.								

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent \checkmark or seasonal ? Is discharge ongoing Yes \checkmark No ?								
c) Expected dates of discharge (mm/dd/yy): start 10/01/07	nd 10/01/08								
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).									

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for all of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites ✓	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and	VOC with Other	Petroleum with Other	Listed Contaminated	Contaminated Dredge Condensates	Hydrostatic Testing of	Well Development or
Other Oils) only	Contaminants	Contaminants	Sites		Pipelines/Tanks	Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is believed present or believed absent in the potential

discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min- imum)	Type of Sample (e.g., grab)	Analytical Method	Minimum Level (ML) of	Maximum daily value		Avg. daily value	
		:			Used (method #)	Test Method	concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids		√	1	grab	160.2		20	.004		
2. Total Residual Chlorine	1		1	grab	330.1	50	ND			
3. Total Petroleum Hydrocarbons	√		1	grab	1664	4	ND			
4. Cyanide	1		1	grab	335.4	5	ND			
5. Benzene	√		1	grab	624	I	ND			
6. Toluene	1		1	grab	624	1	ND			
7. Ethylbenzene	✓		1	grab	624	1	ND			
8. (m,p,o) Xylenes	1		1	grab	624	2	ND			
9. Total BTEX4	1		1	grab	624		ND			

⁴BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples	Type of Sample (e.g.,	Analytical Method	Minimum Level (ML) of Test Method	Maximum daily	value	Avg. daily value	
			(1 min- imum)	grab)	Used (method #)		concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✓		1		504.1	.019	ND			
11. Methyl-tert-Butyl Ether (MtBE)	1		1		624	20	ND			
12. tert-Butyl Alcohol (TBA)	1		1		624	100	ND			
13. tert-Amyl Methyl Ether (TAME)	1		1		624	20	ND			
14. Naphthalene	✓		1		624	4.9	ND			-
15. Carbon Tetra- chloride	1		1		624	I	ND			
16. 1,4 Dichlorobenzene	1		1		624	5	ND		,	
17. 1,2 Dichlorobenzene	1		1		624	5	ND			
18. 1,3 Dichlorobenzene	1		1		624	5	ND			
19. 1,1 Dichloroethane	1		I		624	1.5	ND			
20. 1,2 Dichloroethane	1		1		624	1.5	ND			
21. 1,1 Dichloroethylene	1		1		624	1	ND			
22. cis-1,2 Dichloro- ethylene	1		1		624	1	ND			
23. Dichloromethane (Methylene Chloride)	1		1		624	5	ND			
24. Tetrachloroethylene	1		1		624	1.5	ND			

PARAMETER	Believe Absent	Believe Present	# of Samples	Type of Sample (e.g.,	Analytical Method Used	Minimum Level (ML) of Test Method	Maximum daily	alue	Avg. daily Value	
			(1 min- imum)	grab)	(method #)		concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		l	grab	624	2	ND			
26. 1,1,2 Trichloroethane	✓			grab	624	1.5	ND			
27. Trichloroethylene	✓			grab	624	1	ND			
28. Vinyl Chloride	✓			grab	624	2	ND			
29. Acetone	✓			grab	624	10	ND			
30. 1,4 Dioxane	1			grab	624	2,000	ND			
31. Total Phenols	✓			grab	420.1		ND			
32. Pentachlorophenol	✓			grab	8270	.78	ND			
33. Total Phthalates ⁵ (Phthalate esthers)	✓			grab	8270		ND			
34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	✓			grab	8270	9.8	ND			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	1			grab	8270		ND			
a. Benzo(a) Anthracene	✓			grab	8270	.2	ND			
b. Benzo(a) Pyrene	√			grab	8270	.2	ND			
c. Benzo(b)Fluoranthene	1			grab	8270	.2	ND			
d. Benzo(k) Fluoranthene	1			grab	8270	.2	ND		,	-
e. Chrysene	✓			grab	8270	.2	ND			

⁵The sum of individual phthalate compounds.

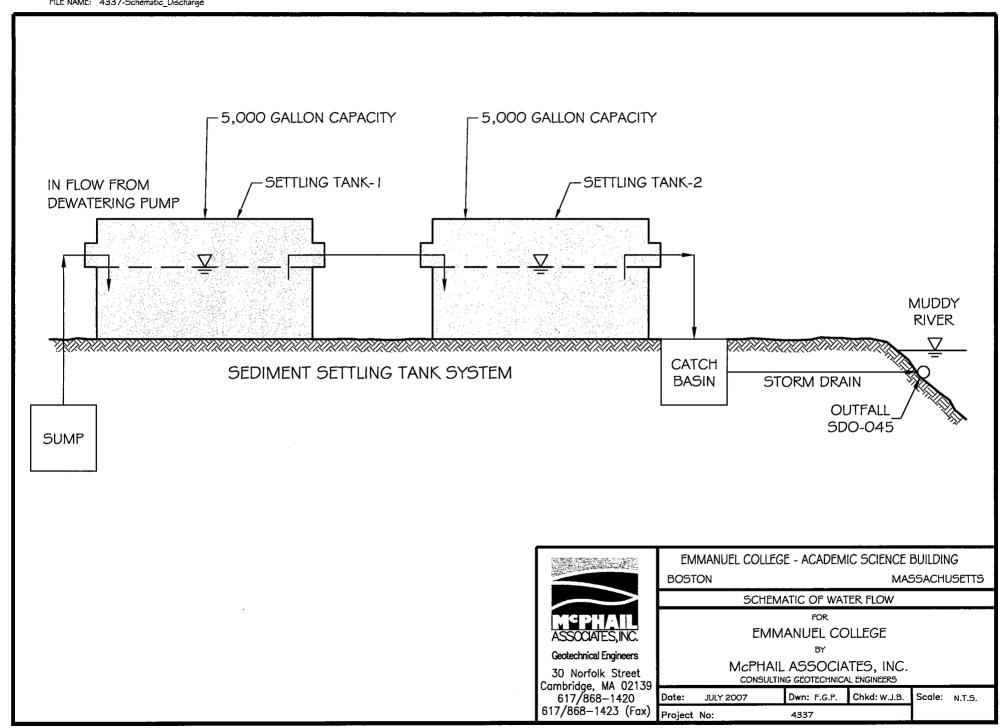
PARAMETER	Believe Absent	Believe Present	# of Samples	Type of Sample (e.g.,	Analytical Method Used	Minimum Level (ML) of	Maximum daily	/alue	Average daily v	alue
			(1 min- imum)	grab)	(method #)	Test Method	concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓		1	grab	8270	.2	ND			
g. Indeno(1,2,3-cd) Pyrene	1		1	grab	8270	.2	ND			
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	grab			ND			
h. Acenaphthene	✓		1	grab	8270	.2	ND			
i. Acenaphthylene	✓		1	grab	8270	.2	ND			
j. Anthracene	✓		1	grab	8270	.2	ND			
k. Benzo(ghi) Perylene	✓		1	grab	8270	.2	ND			
I. Fluoranthene	✓		1	grab	8270	.2	ND			
m. Fluorene	1		1	grab	8270	.2	ND			
n. Naphthalene-	✓		1	grab	8270	.2	ND		-	
o. Phenanthrene	✓		1	grab	8270	.2	ND			
p. Pyrene	✓		1	grab	8270	.2	ND			
37. Total Polychlorinated Biphenyls (PCBs)	✓		1	grab	608	.258	ND			
38. Antimony	✓		1	grab		.5	ND			
39. Arsenic		✓	1	grab	200.7		1.6	.00035		
40. Cadmium	√		1	grab	GFAA	.2	ND			
41. Chromium III		✓	1	grab	200.7		1.3	.00028	· · ·	
42. Chromium VI	1		1	grab	200.7	20	ND			

PARAMETER	Believe Absent	Believe Present	# of Samples	Type of Sample (e.g.,	Analytical Method	Minimum Level (ML) of	Maximum daily value		Avg. daily value	
			(1 min- imum)	grab)	Used (method #)	Test Method	concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper		✓	1	Grab	200.7		1.8	.00050		
44. Lead		✓	1	Grab	200.7		8.7	.00190		
45. Mercury	✓		1	Grab	245.2	0.2	ND			
46. Nickel		✓	I	Grab	200.7		2.6	.00057		
47. Selenium		✓	1	Grab	200.7	1	4.0	.00087		
48. Silver	✓		1	Grab	GFAA	0.4	ND			
49. Zinc	✓		1	Grab	200.7		ND			
50. Iron		✓	1	Grab	200.7		4500	.9826		
Other (describe):										

c) For discharges where **metals** are believed present, please fill out the following:

Step 1: Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y N	If yes, which metals? Lead, Selenium, and Iron
Step 2: For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: Arsenic, chromium III, copper, lead, nickel, selenium and iron DF: 129	Look up the limit calculated at the corresponding dilution factor in Appendix IV . Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? YN_✓ If "Yes," list which metals:

. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:										
a) A description of the treatn	nent system, inc	luding a schematio	c of the proposed	or existing treatment s	ystem:					
Two (2) sedimentation tanks	Two (2) sedimentation tanks with 5,000-gallons capacity in series. A test of the effluent will be completed prior to discharge into the storm drain system, and additional									
filtration and/or metal treatment will be added to meet permit limits, as necessary. See attached figure.										
b) Identify each applicable	Frac. tank	Air stripper	Oil/water	r separator	Equalization tanks	Bag filter	GAC filter			
treatment unit (check all	riac. talik	All sulppei	Oil/ Watci	r separator	Equalization tanks	Bag Iller	GAC IIIIer			
that apply):					✓	ł				
	Chlorination	Dechlorination	on Other (pl	Other (please describe):						
										
c) Proposed average and ma	ximum flow ra	tes (gallons per m	inute) for the disc	harge and the design	flow rate(s) (gallons per	minute) of the treatm	nent system:			
Average flow rate of dischar	ge_50	Maximum flow r	rate of treatment s	ystem 100	Design flow rate of treat					
d) A description of chemical	additives being	used or planned to	o be used (attach)	MSDS sheets):						
None	J									
5 D		1.0								
5. Receiving surface water(s)		information abou	ut the receiving w	ater(s), using separate	sheets as necessary:	T				
a) Identify the discharge path	ıway:	Direct	Within facility_	_ Storm drain ✓	River/brook	Wetlands	Other (describe):			
	İ									
			<u> </u>			<u> </u>				
b) Provide a narrative descrip				•						
See Figures 3 & 4 in attached campus through Outfall SDO	l report. The com 045.	struction dewateri	ing discharge will	be pumped to the Mu	ddy River from storm dr	ain located within the	e Emmanuel College			



 c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: 1. For multiple discharges, number the discharges sequentially. 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.
d) Provide the state water quality classification of the receiving water B
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 28.6 cfs Please attach any calculation sheets used to support stream flow and dilution calculations.
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes No_ ✓ If yes, for which pollutant(s)? Is there a TMDL? Yes No_✓ If yes, for which pollutant(s)?
6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.
a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? YesNo _ Has any consultation with the federal services been completed? No _ What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one): a "no jeopardy" opinion? or written concurrence on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?
b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge? Yes No Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes No No

7. Supplemental information. :		
Please provide any supplemental information.	Attach any analytical data used to support the application.	Attach any certification(s) required by the general permit.
See attached report.		

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name: Emmanuel College-Academic Science Building

Operator signature: Jn. Ame M. Corrovan

Title: Treasure

Date: 7/5/2007